Closed loop launch and creep control for automatic clutch.	
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Cited Documents:	GB2231116; GB2153954; US4792902; US5123302; US5082096; JP59122743
Abstract	
An automatic clutch controller 60 for a vehicle that reduces the oscillatory response to clutch engagement. The automatic clutch controller receives inputs from an engine speed sensor 13 and a transmission input speed sensor 31 and develops a clutch engagement signal controlling a clutch engagement from disengaged to fully engaged. The clutch engagement signal at least partially engages the friction clutch in a manner to cause the measured transmission input speed to asymptotically approach a reference speed employing an approximate inverse model of this oscillatory response. In a launch mode, corresponding to normal start of the vehicle, the reference speed is the measured engine speed. In a creep mode, corresponding to slow speed creeping of the vehicle, the reference speed is a creep speed reference based on the throttle setting and the engine speed. The two modes are selected based upon the throttle setting. The automatic clutch controller preferably includes an integral error function and a differential engine speed function, which together adaptively adjust clutch engagement corresponding to vehicle loading.	
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